## **CLAIM AMENDMENTS:**

Claim 1 (canceled).

Claim 2 (currently amended): A method of water analysis in a semiconductor manufacturing process for detecting the a presence of microorganisms in a water sample, comprising the steps of:

providing a bio-membrane membrane as a filter;

filtering out the microorganisms in the water sample, using the biomembrane membrane;

cultivating growing the microorganisms on the bio-membrane membrane;

staining the microorganisms on the bio-membrane membrane with potassium permanganate (KMnO<sub>4</sub>);

rinsing the bio-membrane membrane with purified deionized water; and performing a colony count for the readable-microorganisms on the bio-membrane membrane.

Claim 3 (currently amended): The method of water analysis according to claim 2, wherein the <u>a</u> pore size of the <u>bio-membrane</u> is about 0.3 µm in diameter.

Claim 4 (currently amended): The method of water analysis according to claim 2, wherein the water sample is filtered through the bio-membrane membrane by a vacuum filtration technique.

Claim 5 (currently amended): The method of water analysis according to claim 2, wherein the microorganisms are cultivated on the bio-membrane membrane at about 30°C, using 2 ml of nutrient solution.

Claim 6 (original): The method of water analysis according to claim 2, wherein the concentration of KMnO<sub>4</sub> is about 0.02 M (mole per liter).

Claim 7 (currently amended): The method of water analysis according to claim 2, wherein <u>after</u> the microorganisms on the <u>bio-membrane</u> <u>membrane</u> are stained with KMnO<sub>4</sub> for about 10 to 30 seconds, and then the <u>bio-membrane</u> <u>membrane</u> is rinsed with purified deionized water.

Claim 8 (currently amended): A method of water analysis in a semiconductor manufacturing process for separately detecting the a presence of microorganisms in a plurality of water samples, comprising the steps of:

providing a plurality of bio-membranes membranes as filters;

filtering out the microorganisms in each of the water samples, using a corresponding one of the bio-membrane membranes, separately;

<u>cultivating growing</u> the microorganisms on different <del>bio-membranes</del> membranes for different times period;

staining the microorganisms on each of the <del>bio-membranes</del> membranes with potassium permanganate (KMnO<sub>4</sub>);

rinsing each of the bio-membranes membranes with purified deionized water; and

performing a colony count for readable the microorganisms on each of the bio-membranes membranes.

Claim 9 (currently amended): The method of water analysis according to claim 8, wherein the <u>a</u> pore size of the <del>bio-membrane</del> membrane is about 0.3 µm in diameter.

Claim 10 (currently amended): The method of water analysis according to claim 8, wherein each of the water samples is filtered through a corresponding bio-membrane membrane by a vacuum filtration technique.

Claim 11 (currently amended): The method of water analysis according to claim 8, wherein the microorganisms are cultivated on each of the bio-membranes membranes at about 30°C, using 2 ml of nutrient solution.

Claim 12 (currently amended): The method of water analysis according to claim 8, wherein the microorganisms on each of the bio-membranes membranes are cultivated for 24, 48, 72, and 96 hours, respectively.

Claim 13 (original): The method of water analysis according to claim 8, wherein the concentration of KMnO<sub>4</sub> is about 0.02 M (mole per liter).

Claim 14 (currently amended): The method of water analysis according to claim 8, wherein the microorganisms on each of the bio-membrane membranes are stained with KMnO<sub>4</sub> for about 10 to 30 seconds.